

## ABSTRACT OF THE DISCLOSURE

[000128] A source processing node communicates with a destination processing node through a channel that has bandwidth requirements and is uni-directional. The source processing node generates the channel to the destination processing node. The destination processing node then accepts the channel. The source processing node allocates a transmit buffer for the channel. The destination processing node also allocates a receive buffer for the channel. A source processing element writes data to the transmit buffer for the channel. A source network interface transmits the data from the transmit buffer of the source processing node over the channel. A destination network interface receives the data into the receive buffer for the channel. A destination processing element receives the data from the receive buffer.